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imagery analysis report

Indications of a New Liquid-Propellant SLBM Under Development in the USSR (S)

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INDICATIONS OF A NEW LIQUID-PROPELLANT SLBM	

UNI	DEN DEVELOI MENT IN THE COOK	(8)	
	0		25X1
	lysis of imagery of submarine-launche		25X1
	evaluation (RDT&E) facilities (Figure nderway in mid-1980 for the testing of		25X1
	d relative to this assessment were as follow		
Zlatoust Armament F	Plant 66		25 <b>X</b> 1
Krasnoyarsk Guided Plant Voroshilov 4	Missile and Arms		
Miass Missile Researd Development Facil			
Zlatoust Rocket Engi	ne Test Facility		
Krasnoyarsk Rocket	Engine Test Facility		
Balaklava Missile Tes	st Center		
Severodvinsk Shipyar	d 402		
Severodvinsk Interfer	ometer		
Khalmer-Yu Tracking	g Facility		
Nenoksa Naval Missi	le Test Center		
	timely expansion of production, test,	and tracking facilities that were	25 <b>X</b> 1
previously associated with SLBM	development and test programs sugge		
test program was under developm	nent.		25X1 25X1
	Since Zlatoust Pl	ant 66 and Krasnoyarsk Plant 4	25X1
	for previous SLBM systems, these facil	lities also may be involved in the	20,
-	eries production items for the new systems and, therefore, could probably be invo		
The facilities at Miass, which is t	he probable design bureau for Maykeye nay not necessarily be related to SLBM de	ev,2 have steadily been expanding	
3. (S/D) Since mid-1970, Z	Clatoust 66 and Krasnoyarsk Plant 4	have undergone expansion that	
included modifications to some ex	xisting buildings and the construction of ere externally complete <sup>2</sup> and could po	of two new fabrication buildings.	
1976 that may support activities	t Engine Test Facility (RETF), several when the vertical test stand is comple April 1980, and other areas of expansion v	eted (Figure 2). Construction re-	
flow test building. In addition, the	onstruction has begun at Krasnoyarsk he control building at the power subst capabilities have also been expanded.		
	sile Test Center (MTC), the former SS-		
	n was either undergoing modification o SS-N-8 popup test program from mid-		
	at Nikolayev Shipyard Nosenko 444	in 1972 and 1973,	25X1
	platform was then used for the SS- $\overline{NX}$		
	e is void of its two missile tubes and began in late 1978. A second popup b		
in the NE-04 popup test program,	was also void of missile tubes; it was a	it Sevastopol Shipyard Sevmorza-	
	ly awaiting modification or further di at Balaklava. New construction at inst		25 <b>X</b> 1
monitoring facility (Figure 5) of	the popup test area, includes new tren	nching, three new buildings, and	
	trol building. Minor construction was were bored in the concrete hardstands		
ground fuel storage tanks.	were bored in the concrete hardstands	that were adjacent to the under-	
7. The possible laur	nch tube test tower (Figure 6) at Sever	odvinsk Shipyard 402 was previ-	25 <b>X</b> 1
ously associated with new SLBM	development. Modifications to the tow	er have been linked to previous	
	SS-N-8, SS-N-18, and possibly the NE-Cone tube door has been replaced. Three		
in diameter by	high, have been seen adjacent to		25 <b>X</b> 1
possible inverted launch tube cap,	in diameter, was adjacent to n near the tower, and a personnel work		25X1
	on the ground nearby. In addition to		25X1 ∠5X1
			25X1
	- 1 -	1 ( B. 0.170 ( 0.0	
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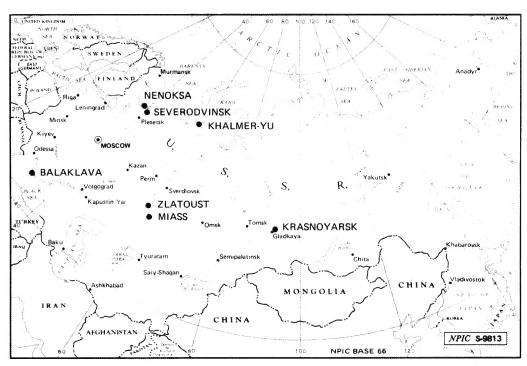


FIGURE 1. LOCATIONS OF SOVIET SLBM RDT&E FACILITIES

Y-class nuclear submarine (SSN) void of missile tubes (Figure 7) had been positioned in front of construction hall 1. It cannot be determined at this time whether the Y SSN will be modified to serve as a test platform for the new liquid SLBM, but this possibility exists only in considering the chronology of events leading to the conversion of an H-class nuclear ballistic missile submarine (SSBN)<sup>3</sup> that was used for the SS-N-8 test bed, the H-III SSBN.

8. (S/D) A new VT-3 interferometer was under construction on approximately 6 nautical miles (nm) south-southeast of Severodvinsk and 16 nm southeast of Nenoksa. The interferometer is oriented northeasterly and will apparently be used to monitor flight tests originating at Nenoksa. In addition, the 64-element telemetry array at Khalmer-Yu was undergoing either maintenance or modifications. On approximately 14 boxes were seen under the array which was positioned perpendicular to the ground. The boxes appeared to be smaller than the ones associated with the initial construction of the array.

9. (S/D) Activity observed at Nenoksa MTC (Figures 8 and 9) further indicates preparations for a new liquid-propellant missile flight test program. The activities include unidentified construction along the beach area northeast of the facility, additional electronics equipment, and changes within the propellant handling facility that were apparently unrelated to the support of the current flight test program, the NE-04 solid-propellant SLBM. Two helical antennas that were mounted atop the large SLBM assembly/check-out building were removed in late November and December 1979, and by early January 1980, a new unidentified set of antennas was under construction (Figure 9). In addition, two near-cylindrical objects were seen in January mounted atop a tower within the checkout compound. The objects may serve as a calibration device for the new rotatable antennas. The antennas did not appear to be complete and, therefore, have not been available for monitoring the NE-04 flight tests which began in late January. At launch facility C, several rings were observed in February which were \_\_\_\_\_\_\_ in diameter. At launch facility B, an unidentified rectangular object was constructed in April 1979 which may have an electronics function. New construction was observed northeast of the facility.

10. (S/D) Some of the tanks seen in the propellant handling facility have been moved or discarded along the fenceline. A new vehicle shed has been under construction in the facility since August 1979 and was nearly externally complete in July 1980.

11. With the expansion of the SLBM production and test facilities and the upgrading of tracking facilities, there is reason to believe that a new liquid-propellant SLBM, possibly the D-25<sup>1</sup> or a follow-on to the SS-N-8 or SS-N-18 missile systems, could possibly begin flight testing within the 1982 to 1984 timeframe.

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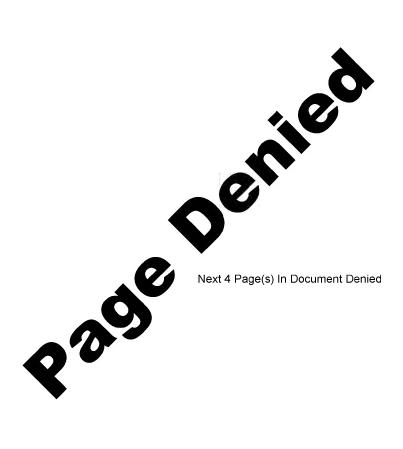
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	FIGURE 9. NEW UNIDENTIFIED ANTENNAS, NE	NOKSA MTC
	FIGURE 9. NEW UNIDENTIFIED ANTENNAS, NE REFERENCES	NOKSA MTC
ERY		NOKSA MTC
SR) All relevant KEYH of this report.		NOKSA MTC  was used in the preparation
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OSR) All relevant KEYH of this report.  DMENTS  NSA. KG/00/121-78,  NPIC. 80,1  Facilities (S), Aug 80 (**)	REFERENCES  OLE imagery acquired through  Probable New Soviet SLBM System, D-25,  RCA-09/0017/80, Activity and Developments are proposed to the second secon	was used in the preparation  250203Z Mar 78 (TOP SECRET  at Selected Soviet SLBM Production and Test
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